

List of Publications by Year in descending order

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331670

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docs citations

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times ranked

1110
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Eu ³⁺ concentration on photoluminescence and thermoluminescence behavior of YBO ₃ :Eu ³⁺ phosphor. Superlattices and Microstructures, 2014, 67, 156-171.	3.1	97
2	White Light Emission by Dy ³⁺ Doped Phosphor Matrices: A Short Review. Journal of Fluorescence, 2016, 26, 105-111.	2.5	72
3	Synthesis, characterization and luminescence behavior of ZrO ₂ :Eu ³⁺ , Dy ³⁺ with variable concentration of Eu and Dy doped Phosphor. Superlattices and Microstructures, 2014, 73, 38-53.	3.1	57
4	Effect of europium doping levels on photoluminescence and thermoluminescence of strontium yttrium oxide phosphor. Materials Science in Semiconductor Processing, 2015, 31, 27-37.	4.0	56
5	Synthesis and characterization of Eu ³⁺ doped SrY ₂ O ₄ phosphor. Optik, 2013, 124, 5585-5587.	2.9	55
6	Photoluminescence and thermoluminescence behavior of Gd doped Y ₂ O ₃ phosphor. Optik, 2015, 126, 1-5.	2.9	46
7	Near UV "blue emission from Ce doped Y ₂ SiO ₅ phosphor. Materials Science in Semiconductor Processing, 2015, 31, 715-719.	4.0	43
8	A review reports on rare earth activated AZrO ₃ (A = Ba, Ca, Sr) phosphors for display and sensing applications. Optik, 2018, 157, 365-381.	2.9	36
9	Decoupling of Translational Diffusion from the Viscosity of Supercooled Water: Role of Translational Jump Diffusion. Journal of Physical Chemistry B, 2019, 123, 7178-7189.	2.6	36
10	Synthesis, characterization, thermoluminescence and optical studies of Eu ³⁺ doped Y ₂ SiO ₅ phosphor. Superlattices and Microstructures, 2015, 77, 152-161.	3.1	35
11	Effect of europium concentration on photoluminescence and thermoluminescence behavior of Y ₂ O ₃ :Eu ³⁺ phosphor. Research on Chemical Intermediates, 2015, 41, 4727-4739.	2.7	35
12	Thermoluminescence and chemical characterization of natural calcite collected from Kodwa mines. Research on Chemical Intermediates, 2013, 39, 3689-3697.	2.7	34
13	Review of the synthesis, characterization, and properties of LaAlO ₃ phosphors. Research on Chemical Intermediates, 2014, 40, 2737-2771.	2.7	34
14	High temperature solid state synthesis and photoluminescence behavior of Eu ³⁺ doped GdAlO ₃ nanophosphor. Superlattices and Microstructures, 2015, 78, 116-124.	3.1	31
15	Understanding the Origin of the Breakdown of the Stokes-Einstein Relation in Supercooled Water at Different Temperature-Pressure Conditions. Journal of Physical Chemistry B, 2019, 123, 10089-10099.	2.6	31
16	Interaction of N-terminal peptide analogues of the Na ⁺ ,K ⁺ -ATPase with membranes. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1282-1291.	2.6	26
17	Thermoluminescence studies of UV-irradiated Y ₂ O ₃ :Eu ³⁺ doped phosphor. Research on Chemical Intermediates, 2013, 39, 3919-3923.	2.7	25
18	Photoluminescence, trap states and thermoluminescence decay process study of Ca ₂ MgSi ₂ O ₇ : Eu ²⁺ , Dy ³⁺ phosphor. Bulletin of Materials Science, 2014, 37, 925-929.	1.7	24

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19	Infrared spectroscopy and upconversion luminescence behaviour of erbium doped yttrium (III) oxide phosphor. <i>Infrared Physics and Technology</i> , 2014, 67, 537-541.	2.9	23
20	Effect of annealing temperature on thermoluminescence glow curve for UV and gamma ray induced ZrO ₂ :Ti phosphor. <i>Journal of Radiation Research and Applied Sciences</i> , 2015, 8, 1-10.	1.2	23
21	Synthesis and characterization of Eu ³⁺ -doped Y ₂ O ₃ phosphor. <i>Research on Chemical Intermediates</i> , 2015, 41, 401-408.	2.7	23
22	Thermoluminescence study, including the effect of heating rate, and chemical characterization of Amarnath stone collected from Amarnath Holy Cave. <i>Research on Chemical Intermediates</i> , 2014, 40, 531-536.	2.7	22
23	Study of formation of deep trapping mechanism by UV, beta and gamma irradiated Eu ³⁺ activated SrY ₂ O ₄ and Y ₄ Al ₂ O ₉ phosphors. <i>Applied Radiation and Isotopes</i> , 2016, 110, 16-27.	1.5	22
24	A single K ⁺ -binding site in the crystal structure of the gastric proton pump. <i>ELife</i> , 2019, 8, .	6.0	22
25	Down conversion luminescence behavior of Er and Yb doped Y ₂ O ₃ phosphor. <i>Journal of Radiation Research and Applied Sciences</i> , 2014, 7, 601-606.	1.2	21
26	A review report on medical imaging phosphors. <i>Research on Chemical Intermediates</i> , 2014, 40, 2837-2858.	2.7	21
27	Synthesis and luminescence study of BaZrO ₃ :Eu ³⁺ phosphor. <i>Superlattices and Microstructures</i> , 2015, 88, 262-270.	3.1	21
28	Estimation of spectroscopic parameters and colour purity of the red-light-emitting YBa ₃ B ₉ O ₁₈ phosphor: Juddâ€“Ofelt approach. <i>Journal of Luminescence</i> , 2016, 180, 169-176.	3.1	21
29	Luminescence and structural properties of Gd ₂ SiO ₅ :Eu ³⁺ phosphors synthesized from the modified solid state method. <i>Ceramics International</i> , 2017, 43, 9084-9091.	4.8	20
30	Review of the preparation, characterization, and luminescence properties of Pr ³⁺ -doped CaTiO ₃ phosphors. <i>Research on Chemical Intermediates</i> , 2015, 41, 3597-3621.	2.7	19
31	Photoluminescence and Thermoluminescence Investigation of Europium- and Dysprosium-Doped Dibarium Magnesium Silicate Phosphor. <i>Spectroscopy Letters</i> , 2015, 48, 179-183.	1.0	19
32	Breakdown of the Stokesâ€“Einstein Relation in Supercooled Water/Methanol Binary Mixtures: Explanation Using the Translational Jump-Diffusion Approach. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10398-10408.	2.6	18
33	Effect of Eu ³⁺ on optical and energy bandgap of SrY ₂ O ₄ nanophosphors for FED applications. <i>Optik</i> , 2020, 208, 164533.	2.9	18
34	Infrared spectroscopy and luminescence spectra of Yb ³⁺ doped ZrO ₂ nanophosphor. <i>Journal of Radiation Research and Applied Sciences</i> , 2015, 8, 399-403.	1.2	17
35	Effect of temperature on the ML of Au doped (Zn,Cd)S mixed phosphors. <i>Chinese Chemical Letters</i> , 2011, 22, 709-712.	9.0	16
36	Importance of Solventsâ€™ Translationalâ€“Rotational Coupling for Translational Jump of a Small Hydrophobic Solute in Supercooled Water. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7569-7583.	2.6	16

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37	Breakdown of the Stokes-Einstein relation in supercooled water: the jump-diffusion perspective. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19964-19986.	2.8	16
38	Serine phosphorylation regulates the P-type potassium pump KdpFABC. <i>ELife</i> , 2020, 9, .	6.0	16
39	UV Induced Thermoluminescence and Photoluminescence Studies of Sm ³⁺ Doped LaAlO ₃ Phosphor. <i>Journal of Display Technology</i> , 2016, 12, 928-932.	1.2	15
40	Kinetics of TL Glow Peak of Limestone from Patharia of CG Basin (India). <i>Journal of Minerals and Materials Characterization and Engineering</i> , 2010, 09, 1101-1111.	0.4	15
41	Photoluminescence Characteristics of Dysprosium Doped CeO Phosphor for White Light Emission. <i>Journal of Display Technology</i> , 2016, 12, 506-512.	1.2	14
42	Influence of glycerol on the cooling effect of pair hydrophobicity in water: relevance to proteins TM stabilization at low temperature. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 800-812.	2.8	14
43	Optical behaviour of cadmium and mercury free eco-friendly lamp nanophosphor for display devices. <i>Results in Physics</i> , 2014, 4, 63-68.	4.1	13
44	Optical Studies of Erbium and Ytterbium Doped Gd ₂ Zr ₂ O ₇ Phosphor for Display and Optical Communication Applications. <i>Journal of Display Technology</i> , 2016, 12, 1224-1228.	1.2	13
45	Green emission from Tb ³⁺ -doped CaLaAl ₃ O ₇ phosphor - A photoluminescence study. <i>Optik</i> , 2018, 164, 407-413.	2.9	13
46	K ⁺ binding and proton redistribution in the E2P state of the H ⁺ , K ⁺ -ATPase. <i>Scientific Reports</i> , 2018, 8, 12732.	3.3	13
47	Effect of Tb ³⁺ ion concentration on photoluminescence and thermoluminescence studies of Y ₄ Al ₂ O ₉ phosphor. <i>Optik</i> , 2021, 226, 165926.	2.9	13
48	Luminescence Studies of Eu ³⁺ Doped Calcium Bromofluoride Phosphor. <i>Research Letters in Physics</i> , 2013, 2013, 1-5.	0.2	12
49	YAlO ₃ :Ce ³⁺ powders: Synthesis, characterization, thermoluminescence and optical studies. <i>Superlattices and Microstructures</i> , 2015, 85, 410-417.	3.1	12
50	Fracture-mechanoluminescence induced by impulsive deformation of II-VI semiconductors. <i>Luminescence</i> , 2015, 30, 883-890.	2.9	12
51	Mechano and photoluminescence spectra of cadmium sulphide and cadmium selenide doped phosphors. <i>Optik</i> , 2016, 127, 7958-7966.	2.9	12
52	Early age shrinkage pattern of concrete on replacement of fine aggregate with industrial by-product. <i>Journal of Radiation Research and Applied Sciences</i> , 2016, 9, 386-391.	1.2	12
53	PL Properties of Sr ₂ CeO ₄ With Eu ³⁺ and Dy ³⁺ for Solid State Lighting Prepared by Precipitation Method. <i>Journal of Fluorescence</i> , 2016, 26, 791-806.	2.5	12
54	Intense visible light emission from dysprosium (Dy ³⁺) doped barium titanate (BaTiO ₃) phosphor and its thermoluminescence study. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 13690-13697.	2.2	12

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55	Green emitting Tb doped LiBaB9O15 phosphors. <i>Optik</i> , 2018, 156, 677-683.	2.9	12
56	Cholesterol binding to the sterol-sensing region of Niemann Pick C1 protein confines dynamics of its N-terminal domain. <i>PLoS Computational Biology</i> , 2020, 16, e1007554.	3.2	12
57	Comparative study of ML and PL spectra of different impurity-doped (Zn, Cd)S mixed phosphors. <i>Research on Chemical Intermediates</i> , 2013, 39, 4337-4349.	2.7	11
58	Luminescence studies and infrared emission of erbium-doped calcium zirconate phosphor. <i>Luminescence</i> , 2016, 31, 837-842.	2.9	11
59	Violet blue emission and thermoluminescence glow curve analysis of Gd ₂ SiO ₅ :Ce ³⁺ phosphor. <i>Optik</i> , 2016, 127, 6243-6252.	2.9	10
60	Thermoluminescence glow curve analysis and trap parameters calculation of UV-induced La ₂ Zr ₂ O ₇ phosphor doped with gadolinium. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 1936-1944.	2.2	10
61	Effect of Eu ³⁺ Concentration on Luminescence Studies of Y ₄ Al ₂ O ₉ Phosphor. <i>Indian Journal of Materials Science</i> , 2014, 2014, 1-8.	0.6	9
62	Kinetics and thermoluminescence glow curve study of Ba ₂ MgSi ₂ O ₇ :Eu ³⁺ , Dy ³⁺ . <i>Research on Chemical Intermediates</i> , 2014, 40, 2599-2604.	2.7	9
63	Mechanoluminescence Study of Europium Doped CaZrO ₃ Phosphor. <i>Journal of Fluorescence</i> , 2016, 26, 1309-1315.	2.5	9
64	Near UV-Blue Emission From Cerium Doped Zirconium Dioxide Phosphor for Display and Sensing Applications. <i>Journal of Display Technology</i> , 2016, 12, 933-937.	1.2	9
65	Kinetic and TL glow curve analysis of UV-, β - and γ -irradiated natural limestone collected from Chunkatta mines. <i>Radiation Effects and Defects in Solids</i> , 2017, 172, 866-877.	1.2	9
66	TL glow curve analysis of UV, beta and gamma induced limestone collected from Amarnath holy cave. <i>Journal of Radiation Research and Applied Sciences</i> , 2015, 8, 126-135.	1.2	8
67	Synthesis and Luminescence Property of Gd_2SiO_5 Phosphor. <i>Journal of Display Technology</i> , 2016, 12, 66-70.	1.2	8
68	Estimating the Lipophobic Contributions in Model Membranes. <i>Journal of Physical Chemistry B</i> , 2017, 121, 2111-2120.	2.6	8
69	Photoluminescence decay curve analysis of some rare earth doped CeO ₂ phosphors. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 17271-17277.	2.2	8
70	Modeling of thermoluminescence in SrY ₂ O ₄ :Eu ³⁺ and their concentration quenching effect. <i>Optik</i> , 2021, 232, 166607.	2.9	8
71	Synthesis and characterization of rare earth doped ZrO ₂ nanophosphors. <i>AIP Conference Proceedings</i> , 2014, , .	0.4	7
72	Luminescence studies on europium- and dysprosium-doped di-strontium magnesium silicate phosphor. <i>Research on Chemical Intermediates</i> , 2015, 41, 3699-3708.	2.7	6

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73	Luminescence Studies on Ba Doped With Eu and Tm Phosphors. Journal of Display Technology, 2016, 12, 460-465.	1.2	6
74	TL glow curve analysis and kinetics of UV, \hat{I}^2 and \hat{I}^3 irradiated YBO ₃ :Eu ³⁺ and Y ₂ O ₃ :Eu ³⁺ phosphors. Journal of Materials Science: Materials in Electronics, 2017, 28, 13565-13578.	2.2	6
75	Translational Jump-Diffusion of Hydroxide Ion in Anion Exchange Membrane: Deciphering the Nature of Vehicular Diffusion. Journal of Physical Chemistry B, 2022, 126, 2430-2440.	2.6	6
76	Structural and optical analysis on europium doped AZrO ₃ (A=Ba, Ca, Sr) phosphor for display devices application. AIP Conference Proceedings, 2016, , .	0.4	5
77	Synthesis and Characterization of Europium Doped Zirconium Based Phosphor for Display Applications. Reviews in Fluorescence, 2017, , 155-184.	0.5	5
78	Thermoluminescence Studies of \hat{I}^2 and \hat{I}^3 -Irradiated Geological Materials for Environment Monitoring. Journal of Fluorescence, 2020, 30, 819-825.	2.5	5
79	Morphological and Optical Characterization of Colored Nanotubular Anodic Titanium Oxide Made in an Ethanol-Based Electrolyte. Materials, 2021, 14, 6992.	2.9	5
80	Kinetics and TL glow curve study of europium-activated strontium aluminate. Research on Chemical Intermediates, 2014, 40, 487-493.	2.7	4
81	Fine Pitch Rapid Heat Self-Aligned Assembly and Liquid-Mediated Direct Bonding of Si Chips. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 946-953.	2.5	4
82	Luminescence studies on Eu ²⁺ and Tb ³⁺ doped Ca ₂ MgSi ₂ O ₇ phosphors. Journal of Materials Science: Materials in Electronics, 2016, 27, 3227-3233.	2.2	4
83	Estimation of Color Purity and Trapping Parameters for Samarium Doped BaTiO Phosphor. Journal of Display Technology, 2016, 12, 567-572.	1.2	4
84	UV ray-induced thermoluminescence study of Y ₂ SiO ₅ :Ce ³⁺ phosphor. Research on Chemical Intermediates, 2016, 42, 2267-2284.	2.7	4
85	Influence of excitation wavelength on the down-conversion photoluminescence characteristics of Gd ₂ O ₃ :Er ³⁺ -Yb ³⁺ phosphor. Inorganic Chemistry Communication, 2022, , 109736.	3.9	4
86	Effect of various cerium ion percentages on photoluminescence and themoluminescence study of CaY ₂ O ₄ phosphor. Journal of Display Technology, 2015, , 1-1.	1.2	3
87	Synthesis, structural characterization and thermoluminescence glow curve study of gadolinium-doped Y ₂ O ₃ nanophosphor. Journal of Taibah University for Science, 2016, 10, 317-323.	2.5	3
88	White light emission and thermoluminescence studies of Dy ³⁺ -activated hardystonite (Ca ₂ ZnSi ₂ O ₇) phosphor. Luminescence, 2021, 36, 1507-1512.	2.9	3
89	An Intracellular Pathway Controlled by the N-terminus of the Pump Subunit Inhibits the Bacterial KdpFABC Ion Pump in High K ⁺ Conditions. Journal of Molecular Biology, 2021, 433, 167008.	4.2	3
90	Synthesis and Luminescence Characteristics of Europium Doped Gadolinium Based Oxide Phosphors for Display and Lighting Applications. , 2020, , 163-185.		3

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91	Green Light Emission in Terbium Doped Lanthanum Zirconate Powders. Analytical Chemistry Letters, 2022, 12, 233-243.	1.0	3
92	Room temperature and zero pressure high quality oxide direct bonding for 3D self-aligned assembly. , 2014, , .		2
93	Thermoluminescence and Photoluminescence Study of Erbium Doped CaY ₂ O ₄ Phosphor. Indian Journal of Materials Science, 2015, 2015, 1-5.	0.6	2
94	Structural and photoluminescence study of CeO ₂ :Eu ³⁺ phosphors. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.6	2
95	Thermodynamic and magnetic properties of Fe doped CaAl ₁₂ O ₁₉ material prepared by combustion route and post-heat treatment. Journal of Materials Science: Materials in Electronics, 2018, 29, 6579-6585.	2.2	2
96	Exploration of Thermoluminescence and Photoluminescence Properties of Eu ³⁺ Doped La ₂ Zr ₂ O ₇ Phosphors. Analytical Chemistry Letters, 2020, 10, 862-875.	1.0	2
97	Liquid mediated direct bonding and bond propagation. , 2016, , .		1
98	Project monitoring system for big data. , 2016, , .		1
99	Spectral modifications and enhancement of red light yield tailored by Y ³⁺ incorporation in the SrGd _{1.94} Eu _{0.06} O ₄ system. Journal of Materials Science: Materials in Electronics, 2019, 30, 20665-20672.	2.2	1
100	Enhancement of photoluminescence/phosphorescence properties of Eu ³⁺ -doped Gd ₂ Zr ₂ O ₇ phosphor. , 2021, , 259-266.		1
101	Spectroscopic parameters of red emitting Eu ³⁺ -doped La ₂ Ba ₃ B ₄ O ₁₂ phosphor for display and forensic applications. , 2021, , 169-180.		1
102	Phosphors in Role of Magnetic Resonance, Medical Imaging and Drug Delivery Applications: A Review. , 2020, , 131-152.		1
103	Upconversion Luminescence Behaviour of Er ³⁺ /Yb ³⁺ Doped MY ₂ O ₄ (M=Ba, Ca, Sr) Phosphors. Advances in Chemical and Materials Engineering Book Series, 0, , 117-148.	0.3	1
104	Thermoluminescence and kinetic parameters of gamma-exposed Y ₂ Zr ₂ O ₇ :Gd ³⁺ phosphor. Optik, 2022, 260, 169082.	2.9	1
105	Evaporation of confined droplet between parallel chips with varying gap at room temperature. Journal of Micromechanics and Microengineering, 2022, 32, 075001.	2.6	1
106	Degradation of rare-earth-activated phosphors. , 2022, , 137-145.		1
107	Thermoluminescence glow curve analysis and proposed model for rare-earth activated some oxide-based phosphors for dosimetric application. , 2022, , 299-327.		1
108	Calculation of kinetic data and thermoluminescence studies of (Zn, Cd)S mixed phosphor. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2015, 118, 739-741.	0.6	0

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109	Effect of variable cerium concentration on photoluminescence behaviour in ZrO ₂ phosphor synthesized by combustion synthesis method. AIP Conference Proceedings, 2016, ,	0.4	0
110	Influence of Cerium Concentration On Electroluminescence Property of SrZrO ₃ :Ce ³⁺ Phosphor. Materials Today: Proceedings, 2019, 18, 4392-4397.	1.8	0
111	Mechanoluminescence Induced in Rare Earth Activated Cementitious Materials. Lecture Notes in Electrical Engineering, 2021, , 481-490.	0.4	0
112	Mechanoluminescence behaviour on Eu ²⁺ /Dy ³⁺ activated SrAl ₂ O ₄ phosphor. IOP Conference Series: Materials Science and Engineering, 2021, 1120, 012004.	0.6	0
113	Composite nature of thermo luminescence studies in Dy ³⁺ activated Sr ₂ ZnSi ₂ O ₇ phosphor. Optik, 2021, 241, 166904.	2.9	0
114	Synthesis, Thermoluminescence and Photoluminescence Study of Gd ³⁺ Doped La ₂ Zr ₂ O ₇ Phosphor. Analytical Chemistry Letters, 2021, 11, 719-728.	1.0	0
115	Phosphors for Various Dosimetry Applications Derived by Different Synthesis Routes. Advances in Chemical and Materials Engineering Book Series, 0, , 53-84.	0.3	0
116	Deflection Modelling of MEMS Cantilever Beam Through Collocation Method Taking B-Splines as Approximating Functions. International Journal of Social Ecology and Sustainable Development, 2022, 13, 1-15.	0.2	0
117	Determination of spectroscopic parameters and thermoluminescence studies of Dy ³⁺ -activated Ba ₂ ZnSi ₂ O ₇ phosphor. Radiation Effects and Defects in Solids, 2021, 176, 1116-1128.	1.2	0
118	Title is missing!. , 2020, 16, e1007554.		0
119	Title is missing!. , 2020, 16, e1007554.		0
120	Title is missing!. , 2020, 16, e1007554.		0
121	Title is missing!. , 2020, 16, e1007554.		0
122	Rare-earth-activated phosphors for energy-efficient solar cell. , 2022, , 321-338.		0
123	Rare-earth-activated phosphor for laser lighting. , 2022, , 403-407.		0